

In re Patent Application of:
LEAMING
Serial No. 10/829,007
Filing Date: April 21, 2004
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In the Claims:

This listing of claims replaces all prior versions and listing of claims in the application.

1. (Currently amended) An integrated circuit for a smart card and comprising:

a transceiver; and

a processor for communicating with a host device via said transceiver, said processor for

providing at least one default descriptor to the host device,

cooperating with the host device to perform an enumeration based upon the at least one default descriptor, and

detecting a ~~system event~~ system utilization metric exceeding a threshold and, responsive to the ~~system event thereto~~, providing at least one alternate descriptor to the host device and cooperating with the host device to perform a new enumeration based thereon.

2. (Cancelled).

3. (Cancelled).

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4. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one device descriptor.

5. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

6. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one interface descriptor.

7. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

8. (Original) The integrated circuit of Claim 1 further comprising at least one memory connected to said processor for storing the at least one default descriptor and the at least one alternate descriptor.

9. (Original) The integrated circuit of Claim 1 wherein said transceiver comprises a universal serial bus (USB) transceiver, and wherein said processor operates in a USB mode.

10. (Currently amended) A smart card comprising:

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a smart card body; and
an integrated circuit carried by said smart card body
and comprising

a transceiver, and
a processor for communicating with a host device
via said transceiver, said processor for
providing at least one default descriptor to
the host device,
cooperating with the host device to perform
an enumeration based upon the at least one default
descriptor, and
detecting a ~~system event~~ system utilization
metric exceeding a threshold and, responsive to
~~the system event thereto~~, providing at least one
alternate descriptor to the host device and
cooperating with the host device to perform a new
enumeration based thereon.

11. (Cancelled).

12. (Cancelled).

13. (Original) The smart card of Claim 10 wherein the
at least one alternate descriptor comprises at least one device
descriptor.

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14. (Original) The smart card of Claim 10 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

15. (Original) The smart card of Claim 10 wherein the at least one alternate descriptor comprises at least one interface descriptor.

16. (Original) The smart card of Claim 10 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

17. (Original) The smart card of Claim 10 wherein said integrated circuit further comprises at least one memory connected to said processor for storing the at least one default descriptor and the at least one alternate descriptor.

18. (Original) The smart card of Claim 10 wherein said transceiver comprises a universal serial bus (USB) transceiver, and wherein said processor operates in a USB mode.

19. (Currently amended) A smart card system comprising:

a host device;

a smart card adapter connected to said host device; and

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a smart card to be read by said smart card adapter and comprising a smart card body and an integrated circuit carried by said smart card body, said integrated circuit comprising

a transceiver, and

a processor for communicating with said host device via said transceiver, said processor for

providing at least one default descriptor to said host device,

cooperating with said host device to perform an enumeration based upon the at least one default descriptor, and

detecting a ~~system-event~~ system utilization metric exceeding a threshold and, responsive to ~~the system-event thereto~~, providing at least one alternate descriptor to said host device and cooperating with said host device to perform a new enumeration based thereon.

20. (Cancelled).

21. (Cancelled).

22. (Original) The smart card system of Claim 19 wherein the at least one alternate descriptor comprises at least one device descriptor.

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23. (Original) The smart card system of Claim 19 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

24. (Original) The smart card system of Claim 19 wherein the at least one alternate descriptor comprises at least one interface descriptor.

25. (Original) The smart card system of Claim 19 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

26. (Original) The smart card system of Claim 19 wherein said integrated circuit further comprises at least one memory connected to said processor for storing the at least one default descriptor and the at least one alternate descriptor.

27. (Original) The smart card system of Claim 19 wherein said transceiver comprises a universal serial bus (USB) transceiver, and wherein said host device and said processor operate in a USB mode.

28. (Currently amended) A method for operating a smart card comprising:

providing at least one default descriptor from the smart card to a host device;

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cooperating with the host device to perform an enumeration based upon the at least one default descriptor; and detecting a ~~system event~~ system utilization metric exceeding a threshold and, responsive thereto to the ~~system event~~, providing at least one alternate descriptor to the host device and cooperating with the host device to perform a new enumeration based thereon.

29. (Cancelled).

30. (Cancelled).

31. (Original) The method of Claim 28 wherein the at least one alternate descriptor comprises at least one device descriptor.

32. (Original) The method of Claim 28 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

33. (Original) The method of Claim 28 wherein the at least one alternate descriptor comprises at least one interface descriptor.

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34. (Original) The method of Claim 28 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

35. (Original) The method of Claim 28 wherein the smart card comprises a universal serial bus (USB) smart card.

36. (New) An integrated circuit for a smart card comprising:

a transceiver; and

a processor for communicating with a host device via said transceiver, said processor for

providing at least one default descriptor to the host device,

cooperating with the host device to perform an enumeration based upon the at least one default descriptor, and

detecting an occurrence of attempted unauthorized communications and, responsive thereto, providing at least one alternate descriptor to the host device and cooperating with the host device to perform a new enumeration based thereon.

37. (New) The integrated circuit of Claim 36 wherein the at least one alternate descriptor comprises at least one device descriptor.

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38. (New) The integrated circuit of Claim 36 wherein said transceiver comprises a universal serial bus (USB) transceiver, and wherein said processor operates in a USB mode.

39. (New) A method for operating a smart card comprising:

providing at least one default descriptor from the smart card to a host device;

cooperating with the host device to perform an enumeration based upon the at least one default descriptor; and

detecting an occurrence of attempted unauthorized communications and, responsive thereto, providing at least one alternate descriptor to the host device and cooperating with the host device to perform a new enumeration based thereon.

40. (New) The method of Claim 39 wherein the at least one alternate descriptor comprises at least one device descriptor.

41. (New) The method of Claim 39 wherein the smart card comprises a universal serial bus (USB) smart card.